-1- (JAPIO) ACCESSION NUMBER TITLE

PATENT APPLICANT INVENTORS

PATENT NUMBER APPLICATION DETAILS SOURCE

INT'L PATENT CLASS JAPIO CLASS

ABSTRACT

85-262354

NEGATIVE ALLOY POWDER FOR MERCURY-FREE ALKALINE

BATTERY

(2000353) TOSHIBA BATTERY CO LTD

FURUSHIMA, KAZUO; TERAOKA, HIROKIMI; MIYASAKA, KOJIRO; YOSHIDA, KAZUMASA
85.12.25 J60262354, JP 60-262354
84.06.07 84JP-115482, 59-115482

86.05.17 SECT. E, SECTION NO. 404; VOL. 10, NO. 133,

HO1M-004/42; HO1M-004/12; C22C-018/00

42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy

Heat Treating); 12.3 (METALS--Alloys)

PURPOSE: To obtain a negative zinc alloy powder free of mercury which has great ability to suppress hydrogen gas generation by restricting the content of lead and the variation in the content of lead to

within specified ranges.

CONSTITUTION: The content of lead in a zinc alloy powder is adjusted to 0.01- 0.10wt% and the difference between the maximum and the minimum contents of lead is adjusted to 0.002wt%. When the amount of lead is less than 0.01wt% of the total amount of the zinc alloy, it has only insufficient ability to suppress hydrogen generation. While, when it exceeds 0.10wt% of the total amount of the zinc alloy, the heavy load characteristic and the utilization rate of the battery are deteriorated. It is necessary that the difference between the maximum and the minimum contents of lead be 0.002wt%. When this difference exceeds the above specified level, the alloy has decreased ability to suppress hydrogen gas generation even when the content of lead in the alloy is properly set.